

Appl. No. : 09/421,870
Filed : October 26, 1999

AMENDMENTS TO THE SPECIFICATION

Please amend the specification of the subject application as follows:

Please replace the paragraph beginning at page 1, line 5, with the following rewritten paragraph:

--This application is a continuation-in-part of commonly owned U.S. Patent Application No. 09/311,329, filed May 14, 1999, now abandoned, which is a continuation-in-part of U.S. Patent Application No. 09/183,842, filed October 30, 1998, now abandoned. This application also claims priority to U.S. Provisional Patent Application No. 60/134,368, filed May 14, 1999. The disclosures of each of the above-referenced applications are incorporated herein by reference in their entireties.--

Please replace the paragraphs beginning at 16, line 11, with the following rewritten paragraphs:

--FIG. 14 presents digital oscilloscope tracing showing the analyte-specific perturbation in HF (quad-sum) signal obtained by an optical disc reader's trackable scanning over several distinct red blood cells immunospecifically adherent to the surface of a first surface trackable RBC-specific disc, with X axis displaying time and Y axis displaying the magnitude of the quad sum signal;

FIG. 15 presents another digital oscilloscope tracing showing the analyte-specific perturbation in HF (quad-sum) signal obtained by an optical disc reader's trackable scanning over several distinct red blood cells immunospecifically adherent to the surface of a first surface trackable RBC-specific disc, with X axis displaying time and Y axis displaying the magnitude of the quad sum signal;

FIG. 16 presents another digital oscilloscope tracing showing the analyte-specific perturbation in HF (quad-sum) signal obtained by an optical disc reader's trackable scanning over several distinct red blood cells immunospecifically adherent to the surface of a first surface trackable RBC-specific disc, with X axis displaying time and Y axis displaying the magnitude of the quad sum signal;

FIG. 17 presents another digital oscilloscope tracing showing the analyte-specific perturbation in HF (quad-sum) signal obtained by an optical disc reader's trackable scanning over several distinct red blood cells immunospecifically adherent to the surface of a first surface

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trackable RBC-specific disc, with X axis displaying time and Y axis displaying the magnitude of the quad sum signal;--

Please replace the paragraph beginning at page 18, line 16, with the following rewritten paragraph:

--FIG 36 schematizes a nucleic acid-based analyte-specific assay site constructed on a trackable disc of the present invention, in which specific adherence of a single 2.8 μ m sphere to the disc surface is driven by nucleic acid sequence complementarity, and includes probe 5'-TCGGGTGTACTCAC-3' (SEQ ID NO:1), probe 5'-TCCAAGAAAGGACC-3' (SEQ ID NO:2), and target 5'-GTGAGTACACCGGAATTGCCAGGACGACCGGGTCCTTTCTTGGA-3' (SEQ ID NO:3).

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Please replace the paragraph beginning at page 19, line 11, with the following rewritten paragraphs:

--FIG. 41A presents mold setting data used in the manufacture of the discs described in Example 5, and shown in FIGS. 31, 32, 37, 38 and 39;

FIG. 41B presents mold setting data used in the manufacture of the discs described in Example 5, and shown in FIGS. 31, 32, 37, 38 and 39;

FIG. 41C presents mold setting mold movement and mold auxiliary control/robotics data used in the manufacture of the discs described in Example 5, and shown in FIGS. 31, 32, 37, 38 and 39;

FIG. 41D presents mold setting metering and injection data used in the manufacture of the discs described in Example 5, and shown in FIGS. 31, 32, 37, 38 and 39;

FIG. 41E presents mold setting holding pressure and purging/dry cycles data used in the manufacture of the discs described in Example 5, and shown in FIGS. 31, 32, 37, 38 and 39;

FIG. 41F presents mold setting temperature control, plastifier zones/temperatures, control devices and disc transfer data used in the manufacture of the discs described in Example 5, and shown in FIGS. 31, 32, 37, 38 and 39;

FIG. 41G presents mold setting production control and process statistics used in the manufacture of the discs described in Example 5, and shown in FIGS. 31, 32, 37, 38 and 39;

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FIG. 41H presents mold setting data used in the manufacture of the discs described in Example 5, and shown in FIGS. 31, 32, 37, 38 and 39;

FIG. 41I presents mold setting systems characteristics used in the manufacture of the discs described in Example 5, and shown in FIGS. 31, 32, 37, 38 and 39.--